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P O Box 1450 Alexandria, Virgima 22313-1450

### NOTICE OF ALLOWANCE AND FEE(S) DUE

466 7590 03/06/2009

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314 EXAMINER
AGGARWAL, YOGESH K

PAPER NUMBER

2622 DATE MAILED: 03/06/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBUTION NO.

 10/555.631
 09/15/2006
 Ryad Benosman
 0687-1002
 6140

TITLE OF INVENTION: METHOD FOR CALIBRATING AT LEAST TWO VIDEO CAMERAS RELATIVELY TO EACH OTHER FOR STEREOSCOPIC FILMING AND DEVICE THEREFOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	ed below or directed of	ng the Patent, advance on erwise in Block 1, by (	a) specifying a new co	orres	pondence address	; and/or	(b) indicating a sepa	arate	"FEE ADDRESS" for
CURRINT CORRESPONDENCE ADDRESS (Name Use Block 1 for any change of address)  46.6 7590 03066/2009  YOUNG & THOMPSON 209 Madison Street Suite 5000				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.					
				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
ALEXANDRIA	, VA 22314								(Depositor's name)
									(Signature)
				L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CC	ONFIRMATION NO.
10/565,631	09/15/2006		Ryad Benosman				0687-1002		6140
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$755	\$300	\$0 \$1055		06/08/2009			
EXAM	EXAMINER		CLASS-SUBCLASS		]				
AGGARWAL, YOGESH K 2622			348-208140						
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.56).  Change of correspondence address (or Change of Correspondence Address from PIOSBH22) attached.  The Address Findication (or "Fee Address" Indication form PIOSBH25 is the 0.3-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil	EFO printing on the patent front page, list  1. the names of up to 3 registered patent attorneys  2. the name of up to 3 registered patent attorneys  2. the name of u single form (having as a member a  2. the name of u single form flaving as a member a  2. the name of u single form flaving as a member a  3. the name of up to the single form flaving as a member a  2. the name of up to the single form flaving as a member a  3. the single form flaving as a fl					
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Please check the appropri	iate assignee category or	categories (will not be p	rinted on the patent):	ч	Individual UC	orporati	on or other private gr	oup e	ntity Government
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies			A: Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)     A: check is enclosed.     Payment by credit card. Form PTO-2038 is attached.     The Director is breely authorized to charge the required fee(s), any deficiency, or credit any overpoyment, to Depoint Account Number (enclose an extra copy of this form).						
	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no						
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademarl	ed from anyone other the k Office.	an th	ne applicant; a reg	istered a	ittorney or agent; or the	ne ass	ignee or other party ir
Authorized Signature					Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/565,631	09/15/2006	Ryad Benosman	0687-1002	6140	
466 75	590 03/06/2009		EXAM	UNER	
YOUNG & THO	MPSON	AGGARWAL, YOGESH K			
209 Madison Stree	t		ART UNIT	PAPER NUMBER	
Suite 500 ALEXANDRIA, V	A 22314	2622 DATE MAILED: 03/06/2009			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 477 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 477 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
10/565,631	BENOSMAN ET AL.				
Examiner	Art Unit				
VOGESHIK AGGARWAI	2622				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 133 and MPEP 1308.

- 1. This communication is responsive to 01/24/2006.
- The allowed claim(s) is/are 1-20.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some\* c) None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  $\square$  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) Thereto or 2) to Paper No./Mail Date \_\_\_\_\_
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 01/24/2006
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🗌 Other \_\_\_

# Allowable Subject Matter

Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance;

[Claim 1]: A method of calibrating at least two video cameras (1, 2) relative to each other when said two cameras constitute apparatus for stereoscopically filming (3) a portion of pathway (4) suitable for having any type of body traveling there along, in order to detect the state of occupation of said portion of pathway, and in particular to detect incidents that might occur on said portion of pathway, the method being characterized in that it consists:

in placing a plurality of marks on the surface (5) of the portion of pathway (4), said marks being distributed substantially:

in ordered manner on a first group of first and second geometrical lines D1, D2 meeting at a first point P1; and

in such a manner that given points belonging respectively to the marks having the same order relative to the first point P1 on said first and second geometrical lines D1, D2 are situated on a second group of fourth and fifth geometrical lines D4, D5 meeting at a second point P2 that does not coincide with the first point P1;

in forming a video image of said portion of pathway (4) including said marks, using each of the two video cameras; in defining a characteristic point Pc for each image of a mark in each of the two video images; in determining first and second image lines Dli, D2i and fourth and fifth image lines D4i, D5i from said characteristic points Pc;

Application/Control Number: 10/565,631

Art Unit: 2622

in determining a first image meeting point for the first and second image lines D1i, D2i and a second image meeting point for the fourth and fifth image lines D4i, D5i in each of the video images; and

in processing the video signals delivered by each video camera in such a manner that these signals are representative of two images suitable for being processed by stereovision.

# Discussion of prior art

US Patent # 5,905,568 (Mark McDowell) teaches a calibration equipment for two
camera by imaging a calibration target plane containing calibration points as shown in figure 3.
 However it does not teach marks having the same order relative to a first point on first and
second geometrical lines situated on a second group of fourth and fifth geometrical lines meeting
at a second point that does not coincide with the first point.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOGESH K. AGGARWAL whose telephone number is (571)272-7360. The examiner can normally be reached on M-F 9:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571)-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

YKA February 26, 2009

/Sinh N Tran/ Supervisory Patent Examiner, Art Unit 2622